

Concerning the Efficiency of Nitrogen Oxide 77631
Absorption in Bubble Plate Columns SOV/80-33-2-6/52

where K is the coefficient expressing the change of C
for 1% change of acid concentration:

$$C = 0.3 + K \cdot c_{\text{HNO}_3} + 0.0041 P^{1.85} + \\ + 0.067 h - 0.002 t - 0.43 w, \quad (10)$$

where 0.3 is a constant for a given plate construction and initial gas composition. Preliminary calculations of the values of C by means of the above equations showed that they can be used successfully in designing absorption columns for the production of weak nitric acid. The following workers of the TsZl LKhK (Abstracter's note: Presumably stands for the Central Factory Laboratory of the Lisichansk Chemical Combine) took part in the study: M. T. Ivakhnenko, A. N. Berezhnaya, N. A. Rassypkina, Z. A. Makarova, A. N. Lyashenko, N. S. Bezperstova, N. N. Nikolayeva, and K. A. Dubenko. There are 6 figures; 3 tables; and 10 references, 1 U.S., 2 U.K., 1 Polish, 6 Soviet. The U.S. and U.K. references are: K. G. Denbigh, A. J. Prince, J. Chem. Soc., 6, 790 (1947); P. G. Caundl, K. G. Denbigh, Trans. Faraday Soc., 49, 1, 39 (1953); T. S. Chambers, T. K. Sherwood, Ind. Eng. Chem., 29, 12, 1515

Card 3/4

Concerning the Efficiency of Nitrogen Oxide
Absorption in Bubble Plate Columns

77631
SOV/80-33-2-6/52

(1937).

SUBMITTED: June 23, 1959

Card 4/4

KORDYSH, Ye. I. ~~Cand~~ Tech Sci -- "Determination of the optimum relationship
between processes of oxidation of nitric oxide and absorption of ~~nitric oxide~~ *nitrogen peroxide*
during the formation of nitric acid in absorption columns." Ivanovo, 1961
(Min of Higher and Secondary Specialized Education RSFSR. Ivanovo Chemicotechno-
logical Inst). (KL, 4-61, 197)

195
-24-

L 35439-65 EFF(c)/EWP(j)/EWA(c)/EWT(m) Pc-L/Pr-L RM

ACCESSION NR: AP5006845

S/0063/65/010/001/0108/0108

AUTHOR: Strizhevskiy, I. M.; Kordysh, Ye. I.; Voronova, L. Ya; Mokhova, V. S.; Shlyakhover, I. V.; Sobodyn, S. G.; Estrin, S. M. 26 25 B

TITLE: Filling of cylinders with acetylene made by pyrolysis

SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 10, no. 1, 1965, 108

TOPIC TAGS: acetylene pyrolysis, carbide based acetylene, propadiene, methyl acetylene, diacetylene, divinyl, chromatographic column, acetylene cylinder, organic solvent

ABSTRACT: Unlike acetylene made from carbide, acetylene made by pyrolysis contains the following impurities: methyl acetylene, propadiene, divinyl, diacetylene, etc. The authors experimented with filling 40-liter cylinders with acetylene made by pyrolysis in order to determine the nature of the distribution of these impurities during the emptying of the cylinders. The acetylene used had the following composition in %: C_2H_2 98-99.2; CO_2 0.1-0.2; O_2 0.05-0.1; propadiene 0.2-0.3; methyl acetylene 0.2-0.3; divinyl 0.01-0.03; vinyl acetylene 0.03-0.05; diacetylene 0.03-0.05. Prior to the experiments this acetylene was

Card 1/2

L 35439-65

ACCESSION NR: AP5006845

subjected to a chromatographic analysis and to a ionization-flame detector test. In the course of experiments with discharging of acetylene from the cylinder at the rate of $0.5-0.6\text{m}^3/\text{hr}$ in the presence of an ambient air temperature of 23°C it was found that, as the pressure decreased, the content of impurities in the acetylene emerging from the cylinder increased. With increasing temperature the amount of the residual impurities in the cylinder decreases markedly. Polymerization of the diacetylene in organic solvents is extremely slow, and the resulting polymers are non-explosive. The acetylene cylinder filled with the porous mass is a distinctive chromatographic column. Orig. has: 2 figures.

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza (State Institute of Nitrogen Industry and Products of Organic Synthesis)

SUBMITTED: 20May64

ENCL: 00

SUB CODE: 0000

NO REF SOV: 004

OTHER: 002

Card 2/2

STRIZHEVSKIY, I.I. [Stryzhevs'kyl, I.I.]; KORDYSH, Ye.I. [Kordysh, IE.I.];
VORONOVA, L.Ya.; MOKHOVA, V.S.; SOBODYR', S.G. [Sobodyr, S.H.];
SHLYAKHOVER, I.V.; ESTRIN, S.M.

Balloon filling with pyrolysis acetylene. Khim. prom. [Ukr] no.1:
69-71 Ja-Mr '65. (MIRA 18:4)

KORDYSH, Ye.I.; LIVKIN, V.A.; STRUNINA, A.V. Prinimali uchastnye: BOSANYUK,
G.P.; GOLOVANOV, E.V.; SAMOYLENKO, L.N.

Contamination of expansion gases from ammonia production by
hydrogen sulfide as a result of ~~occurring biochemical processes~~.
Khim. prom. 41 no. 12:901-902 D '65 (MIRA 19:1)

BEREZHNOY, A.S.; KORDYUK, R.A.

Melting diagram of the system $MgO - Al_2O_3 - ZrO_2$. Dop. AN URSR
no.4:506-508 '64. (MIRA 17:5)

1. Ukrainskiy institut ogneuporov. 2. Chlen-korrespondent AN Ukr
SSR (for Berezhnoy).

KORDYUK, R.A.; GUL'KO, N.V.

Tetrahedration of the system $\text{MgO} - \text{Al}_2\text{O}_3 - \text{ZrO}_2 - \text{SiO}_2$. Dokl.
AN SSSR 154 no.5:1183-1184 F'64. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov.
Predstavleno akademikom N.V. Belovym.

BEREZHOY, A. S.; KOEDYUK, R. A.

Modification transformations of magnesium metasilicate. Dop. AN
URSR no.10:1417-1420 '60. (MIRA 13:11)

1. Ukrainakiy institut ognepetrov, g. Khar'kov.
2. Chlen-korrespondent AN URSR (for Bereshnoy).
(Magnesium silicate)

BEREZHNOY, A.S.; KORDYUK, R.A.

Characteristics of reactions underlying the manufacture and use
of forsterite refractories. Dop. AN URSR no. 12:1614-1617 '60.
(MIRA 14:1)

1. Ukrainskiy institut ogneporov, Khar'kov. 2. Chlen-
korrespondent AN USSR (for Berezhnoy).
(Forsterite)

BEREZHNOY, A.S.; KORDYUK, R.A.

Formation of calcium silicates, ferrites, aluminate, and titanates
in the solid phase. Dop. AN URSSR no. 7:924-927 '61. (MIRA 14:8)

1. Ukrainskiy institut ogneuporov. 2. Chlen-korrespondent
AN URSSR (for Berezhnoy).
(Calcium compounds)

ACCESSION NR: AP4030395

S/0021/64/000/004/0506/0508

AUTHOR: Berezhnoy, A. S. (Corresponding member of AN UkrSSR); Kordyuk, R. A.

TITLE: Melting diagram of the system $MgO - Al_2O_3 - ZrO_2$

SOURCE: AN UkrRSR. Dopovidi, no. 4, 1964, 506-508

TOPIC TAGS: magnesium oxide, corundum, alumina, zirconium oxide, fusibility

ABSTRACT: A melting diagram of the system $MgO-Al_2O_3-ZrO_2$ (see Fig. 1 of Enclosure) is constructed, and the location of the boundary lines tentatively determined (see Fig. 2 of Enclosure). Contrary to the report by P. Ya. Sal'dav and others (Izv. AN SSSR, Otd. khim. nauk, 6, 669 (1945)) these writers found that ZrO_2 and $MgAl_2O_4$ form a simple pseudobinary system with an eutectic melting at $1860^\circ C$ and containing about 52% by weight of ZrO_2 . Two ternary eutectics in this system are formed by the following solid phases (and by the melt) with the following melting points and the approximate composition (% by weight): 1) $Al_2O_3 - ZrO_2 - MgAl_2O_4$; $1830^\circ C$; 7% MgO , 47% Al_2O_3 and 50% ZrO_2 . 2) $MgO - ZrO_2 - MgAl_2O_4$; $1840^\circ C$; 20% MgO , 20% Al_2O_3 and 60% ZrO_2 . The solid solutions contain

Card 1/4

ACCESSION NR: AP4030395

not more than a few % of the third oxide. In the investigated system the relative value of the region of compositions containing not more than 10% of the melt at 2000°C is about 7.5% (see Fig. 3 of Enclosure).

ASSOCIATION: Ukrayins'kyy insty'tut vognetryviv (Ukrainian Institute of Fire Resistant Materials)

SUBMITTED: 10Aug63

DATE ACQ: 30Apr64

ENCL: 02

SUB CODE: MM

NO REF SOV: 002

OTHER: 000

Card 2/4

ACCESSION NR: AP403039;

ENCLOSURE: 01

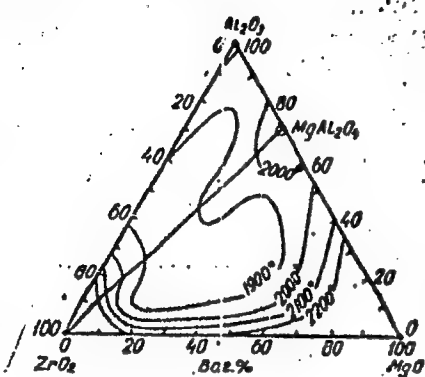


Fig. 1. Melting diagram

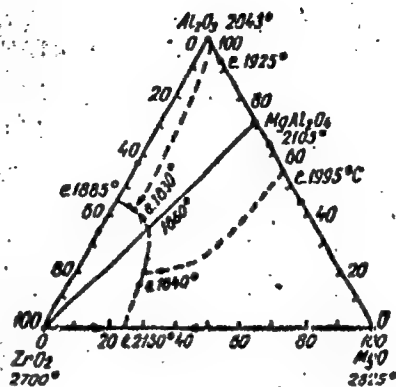


Fig. 2. Boundary lines

Card 3/4

ACCESSION NR: AP4030395

ENCLOSURE: 02

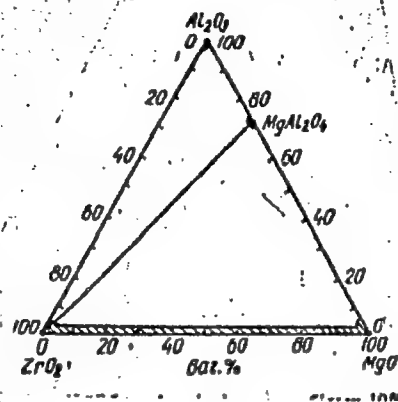


Fig. 3. Region of compositions containing not more than 10% of melt at 2000°C.

Card 4/4

36284

S/131/62/000/002/003/004
B105/B101

15.2230

AUTHORS: Berezhnoy, A. S., Kordyuk, R. A.

TITLE: The system $\text{CaO} - \text{MgO} - \text{ZrO}_2 - \text{SiO}_2$ and its importance for the production of refractories

PERIODICAL: Ogneupory, no. 2, 1962, 85-90

TEXT: The system $\text{CaO} - \text{ZrO}_2 - \text{SiO}_2$ was studied and two ternary compounds with the following properties have been detected in it: $\text{Ca}_2\text{ZrSi}_2\text{O}_9$, specific gravity 3.46, melts incongruently at $\sim 1600^\circ\text{C}$ with formation of Ca_2SiO_4 and ZrO_2 arises from oxides (α -quartz, tetragonal ZrO_2 , and CaO) with a 2.6% increase in volume, linear expansion coefficient $\alpha = 11.9 \cdot 10^{-6}$, orthorhombic system, $N_g = 1.758$, $N_m = 1.737$, $N_p = 1.735$, $N_g - N_p = 0.023$, specific refraction: 0.215; $\text{Ca}_2\text{ZrSi}_4\text{O}_{12}$, specific gravity: 3.06, melts incongruently at $\sim 1430^\circ\text{C}$ with formation of ZrSiO_4 arises from oxides with a 7.3% increase in volume, $\alpha = 5.9 \cdot 10^{-6}$, orthorhombic system, $N_g = 1.658$,
Card 1/2

The system $\text{CaO} - \text{MgO} - \text{ZrO}_2 - \text{SiO}_2 \dots$

S/131/62/000/002/003/004
B105/B101

$N_p = 1.653$, $N_g - N_p = 0.005$, specific refraction: 0.214. Optical studies show that ZrO_2 and Ca_2SiO_4 do not form solid solutions of noticeable concentration. In the system $\text{CaO} - \text{ZrO}_2 - \text{SiO}_2$ the range of refractory compositions at 1600°C is rather small and decreases rapidly at 2000°C . Melting point, number of existing phases, number of elementary tetrahedrons in which phases occur, the volumes $\sum V_i$ and the existence probability W_i ($W_i = \sum V_i/n$, where n is the number of components) are given (Table 2) for the 18 phases of the system $\text{CaO} - \text{MgO} - \text{ZrO}_2 - \text{SiO}_2$. The lowest melting point of the eutectic CaSiO_3 , $\text{CaMg}(\text{SiO}_3)_2$, $\text{Ca}_2\text{ZrSi}_4\text{O}_{12}$, and SiO_2 , is $\sim 1300^\circ\text{C}$. At 2000°C only binary combinations of CaO , MgO , and ZrO_2 are suited, and some ternary ones with a maximum concentration of the third oxide of $\sim 5\%$. There are 8 figures, 3 tables, and 5 Soviet references.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut ogneporov
(Ukrainian Scientific Research Institute of Refractories)

Card. 2/3

34756

S/020/62/142/003/024/027
B101/B110

15.2520

AUTHORS: Kordyuk, R. A., and Gul'ko, N. V.

TITLE: Subsolidus structure and ternary compounds in the system
CaO - ZrO₂ - SiO₂

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 3, 1962, 639-641

TEXT: The reactions in solid phase of the combinations (1) Ca₂SiO₄ + CaZrO₃; (2) Ca₂SiO₄ + ZrO₂; (3) Ca₂SiO₄ + ZrSiO₄; (4) Ca₃Si₂O₇ + ZrO₂; (5) CaSiO₃ + CaZrO₃; (6) CaSiO₃ + ZrO₂; and (7) CaSiO₃ + ZrSiO₄ were subjected to microscopic and X-ray investigations. Mixtures (ratio by weight 1:1) of the substances mentioned (synthesized from pure ZrO₂, quartz, and CaCO₃) were calcined by raising the temperature from 1200°C to the melting point at 50 - 100°C intervals. Reactions were found to take place in mixtures (4) and (7), but not in mixtures (1), (2), and (6). Formation of two compounds was observed when studying the systems
Card 1/1

Subsolidus structure and ternary...

S/020/62/142/003/024/027
B101/B110

Ca_2SiO_4 - CaSiO_3 - ZrO_2 and CaSiO_3 - SiO_2 - ZrO_2 . $\text{Ca}_3\text{ZrSi}_2\text{O}_9$ (I) forms from $\text{CaSiO}_4 + \text{CaSiO}_3 + \text{ZrO}_2$ or $\text{Ca}_3\text{Si}_2\text{O}_7 + \text{ZrO}_2$. The beginning of formation is microscopically observed at 1200°C . At 1400°C , the yield is 90% after 2 hr. The compound is most perfectly formed at 1500°C from $\text{Ca}_3\text{Si}_2\text{O}_7 + \text{ZrO}_2$. At 1600°C , incongruent melting takes place with formation of Ca_2SiO_4 , ZrO_2 , and melt. Optical constants of I are: $N_g = 1.758$; $N_m = 1.737$; $N_p = 1.735$; $N_g - N_p = 0.023$, $2V = 2^\circ 92'$. The sign of the principal zone is positive, biaxial, with linear extinction. Crystallization in a rhombic system is assumed for I. The specific gravity determined pycnometrically is 3.46 g/cm^3 . The formation from oxides occurs with increase in volume ($\Delta V = +2.6\%$). The linear expansion coefficient α is $11.9 \cdot 10^{-6}$. The compound is soluble in concentrated HCl, and hydrolyzes in boiling water. $\text{Ca}_2\text{ZrSi}_4\text{O}_{12}$ (II) forms (after ~15 hr) at 1400°C ; the sample has to be crushed several times during this process. Above 1430°C , incongruent melting takes place with formation of ZrSiO_4

Card 2/4

Subsolidus structure and ternary...

S/020/62/142/003/024/027
B101/B110

and melt. Data for II are: $N_g = 1.658$; $N_p = 1.653$; $N_g - N_p = 0.005$; specific gravity = 3.06 g/cm^3 , $\Delta V = +7.3\%$; $\alpha = 5.9 \cdot 10^{-6}$. The sign of the principal zone is positive, biaxial, extinction is linear. A rhombic system is therefore assumed. Compound II is insoluble in concentrated HCl, and does not hydrolyze. X-ray data (line intensities and interplanar spacings) found for I and II by A. M. Gavrish are tabulated. No reactions were observed between I and ZrO_2 , CaSiO_3 , $\text{Ca}_3\text{Si}_2\text{O}_7$, Ca_2SiO_4 , and between II and ZrO_2 , ZrSiO_4 , SiO_2 , and CaSiO_3 . The subsolidus structure of the system $\text{CaO} - \text{ZrO}_2 - \text{SiO}_2$ (Fig. 1) differs from that of the system $\text{SrO} - \text{ZrO}_2 - \text{SiO}_2$. G. V. Voronkov and Ye. I. Medvedovskaya are mentioned. There are 1 figure, 1 table, and 3 references: 1 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: P. S. Dear, Bull. of the Virginia Polytechn. Inst., 51, [8], 10 (1958); Chem. Abstr., 52, [5], 3862 (1959).

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut ogneporov
(Ukrainian Scientific Research Institute of Refractory
Materials)

Card 3/4

BEREZHNOY, A.S.; KORDYUK, R.A.

Characteristics of the system $\text{CaO} - \text{MgO} - \text{Al}_2\text{O}_3 - \text{ZrO}_2$. Dop. AN URSR
no.12:1617-1620 '63. (MIRA 17:9)

1. Ukrainskiy institut ogneporov. 2. Chlen-korrespondent AN UkrSSR
(for Berezhnoy.

DUBININ, V.N. [Dubinin, V.M.]; KORDYUK, S.L.; LISICHENKO, V.I.
[Lytychenko, V.I.]; SMOYLOVSKIY, A.N. [Smoilovs'kyi, O.N.]

Temperature dependence of the Mossbauer effect in stannic
acid. Ukr.fiz.zhur. 10, no.12:1368-1369 D '65.

(MIRA 19:1)

1. Dnepropetrovskiy gosudarstvennyy universitet.

L 09230-67 EMI(m)/EWP(t)/STI IJP(c) JD/JG

ACC NR: AP7002799

SOURCE CODE: UR/0048/66/030/008/1360/1363

AUTHOR: Kryukova, L. N.; Kordyukovich, V. O; Sorokin, A. A. 20

ORG: Scientific Research Institute of Nuclear Physics, Moscow State University im. M. V. Lomonosov (Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta)

TITLE: Lifetimes of the lower excited states of Ir^{189} /9

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 8, 1966, 1360-1363

TOPIC TAGS: deformed nucleus, iridium 21

ABSTRACT: To verify the assumption that the lower excited states of Ir^{189} may be regarded as levels of a deformed nucleus which represent a system of two rotational bands based on single-particle Nilsson states $3/2^+/402/$ and $1/2^+/400/$, the lifetimes of the first and second excited levels of Ir^{189} (with energies of 94 and 113 kev) were measured. The source used was a Pt fraction chemically isolated from a proton-irradiated Au target. The lifetimes were measured by means of a β -coincidence spectrometer. Pulses from the photomultiplier anodes were transmitted to a time-amplitude converter. Findings: For the 94-kev level it was found that $T_{1/2}(M1)$ $1.36 \cdot 10^{-9}$ sec and $T_{1/2}(E2)$ $9.6 \cdot 10^{-9}$ sec. These findings strengthen the theory that the 94-kev level is chiefly a single-particle (proton) level and the 113-kev level is the second rotational term of the fundamental rotational band with $K = 3/2$.

Orig. art. has: 4 figures. (JPRS: 39,040)

Card 1/1m SUB CODE: 20 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 006

0925 1627

RUDENKO, N.P.; KORDYUKEVICH, V.O.

Reaction of gold with 8-mercaptoquinoline and its gravimetric determination. Zhur. anal. khim. 21 no.1:18-22 '66

(MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

KRYUKOVA, L.V.; KORDYUKEVICH, V.O.; SOROKIN, A.A.; RUDENKO, N.P.

Lifetime of the 55Kev. state in the Ir^{188} nucleus. Izv. AN SSSR. Ser. fiz. 29 no.7:1089-1091 J1 '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

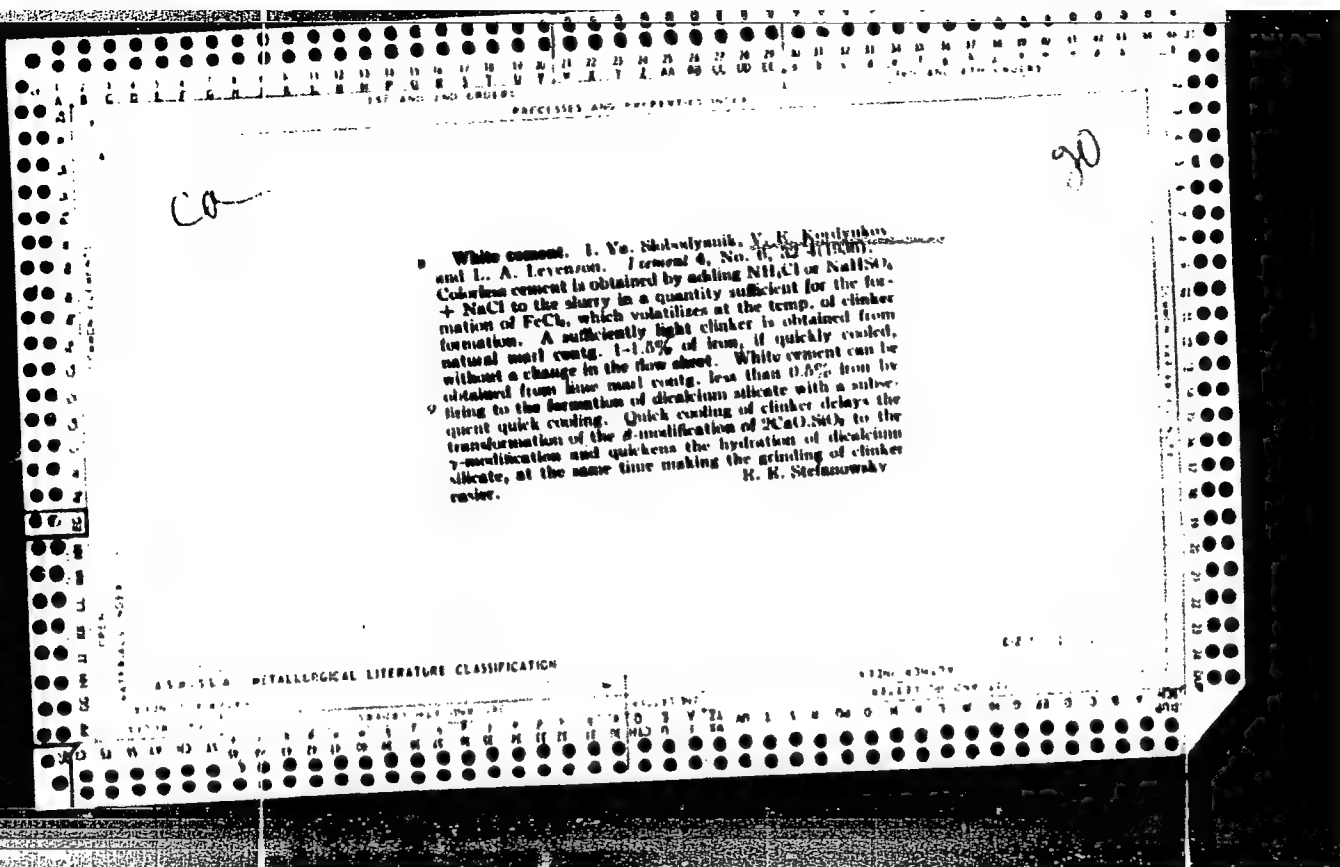
MIKOYAN, A.; IGNATOV, N.; KOROVUSHKIN, A.; GARBUZOV, V.; KABKOV, Ya.;
KUDRYAVTSEV, A.; BORYCHEV, I.; VOROB'YEV, V.; SVESHNIKOV, M.;
USHAKOV, V.; MIROSHNICHENKO, B.; ZENCHENKO, N.; BABUSHKIN, V.;
NIKITKIN, N.; PODSHIVALENKO, P.; ZOTOV, M.; VOSKRESENSKIY, A.;
KAZANTSEV, A.; KORDYUKOV, A.; NOSKO, P.; PLESHAKOV, S.; VERSOV, A.;
ROMASHOV, A.

I.N. Kazakov; obituary. Den. 1 kred. 19 no.3:95 Mr '61.

(MIRA 14:3)

(Kazakov, Ivan Nikolaevich, 1907-1961)

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
<p>ca</p> <p>Effect of drastic cooling of clinkers on the color and properties of cement. I. Ya. Slobodnyak and V. E. Kordyukov. <i>Tsiment</i> 8, No. 10, 38-41 (1938).—Cooling from 1420° and subsequent chlorination led to a whitening of the cement in the conditions of an Armenian plant. R. E. Stefanovsky</p> <p>20</p>																			
<p>ASB-55A METALLURGICAL LITERATURE CLASSIFICATION</p>																			
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									



1ST AND 2ND EDGES										3RD AND 4TH EDGES									
PROCESSES AND PROPERTIES INDEX																			
<div style="display: flex; justify-content: space-between;"> SC B-1-10 </div> <p>White cement. I. J. Shchegolev, Y. E. Kostikov, and L. A. Lavrenko (Tsvetn. Khim. & No. 8, 55-56). Colored cement is obtained by adding KMnO_4 or $\text{K}_2\text{Cr}_2\text{O}_7$ + NaCl to the slurry in a quantity sufficient for the formation of FeCl_3, which oxidizes at the expense of water. A sufficiently light color is obtained when cement and 0.4-0.5% of FeCl_3 is quickly cooled without a change in the flow sheet. White cement can be obtained from CaCl_2 and FeCl_3 by adding to the formation of HClO_4, HNO_3, H_2SO_4 and H_2O in a quantity of 0.4-0.5%. Quick cooling delays the transformation of FeCl_3 into $\gamma\text{-Fe}_2\text{O}_3$ and quickens the hydration at the same time making the grinding of clinker easier. <i>Chem. Abstr. (r)</i></p>																			
<div style="display: flex; justify-content: space-between;"> ASM-36A METALLURGICAL LITERATURE CLASSIFICATION EXON 30111V </div>																			
EXON 30111V										EXON 30111V									
EXON 30111V										EXON 30111V									

KORDYUKOV, V.P.

Widening of rings and bandages during forging. Kuz.-shtam.proizv.
6 no.1:42-44 Ja '64. (MIRA 17:3)

KORDYUKOV, Vasil'y Pavlovich; SEMENOV, Ye.I., kand. tekhn.
nauk, red.

[Making large forgings by the hammer forging method]
Opyt izgotovleniia krupnykh r'kovok svobodnoi kovkoi.
Moskva, Mashinostroenie, 1965. 191 p. (MIRA 18:12)

21807

KORDYUKOV, V. Ye. K voprosu konstruirovaniya mundshtukov dlya
dyrchatogo kirpicha. Steklo i keramika, 1949, No. 5, s. 12-14.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

KORDYUKOV, V.Ye., inzh. (Chernigov)

We need a method of determining the activity of the binding
material. Stroil. mat. 9 no.5:18 My '63. (MIRA 16:7)

(No subject headings)

ACCESSION NR: AR4014430

S/0124/64/000/001/v080/v080

SOURCE: RZh. Mekhanika, Abs. 1V612

AUTHOR: Kordyukova, L. N.

TITLE: Supplemental plastic deformation during one load cycle and following repeated loading

CITED SOURCE: Sb. tr. Ul'yanovskogo politekhn. in-ta, no. 2, 1962, 21-39

TOPIC TAGS: plastic deformation, supplemental deformation, Bauschinger effect, hysteresis loop

TRANSLATION: The author supplies a qualitative explanation of the appearance of plastic deformation per cycle during a pulsed constant amplitude stretching. He utilizes the model of a polycrystalline metal with grains of differing fluidity limits as proposed by N. N. Afanas'yev (Statisticheskaya teoriya ustalostnoy prochnosti metallov. Kiyev, Izd-vo AN UkrSSR, 1953) assuming a uniform distribution of the frequency of fluidity limits. The explanation of the Bauschinger effect and the creation of the hysteresis loop without regard to the changes following a number of cycles is based here on the above-mentioned model. The supplemental plastic deformation per cycle is tied to various degrees of relaxation of the residual stresses
Card 1/2

KORDYUKOVA, L.N., inzh..

Plastic forming by means of a pulsating force. Trudy MVTU no.111;
180-186 '64. (MIRA 17:9)

KOMYUKOVA, H.S.

Acceleration of alcoholic fermentation by protein degradation products. A. G. Ziberovskii and N. S. Kordunova (All-Union Sci. Research Inst. Alc. ~~Manufacture~~ ~~Microbiology~~ 23, 37-38/1954). -- Partially decomposed grain ferments faster than sound grain owing to amino acids from proteins. Grain spoiled by spontaneous heating shows this effect, which can be obtained artificially by pressure washing. Thus, in corn mash the pressure method solubilizes starch better and favors hydrolytic protein degradation which releases the amino-acid accelerators. J. P. S.

RAYEV, Z.A.; DROTYANKO, A.S.; KORDYUKOVA, N.S.; SEMENETS, P.A.; KOVALENKO, A.D.; PARKHOMENKO, M.R.

Treatment of yeast milk with malt wort for the improvement of the quality of compressed yeast. Ferm. i spirt. prom. 31
(MIRA 18:11)
no.7:18-22 '65.

1. Ukrainsky nauchno-issledovatel'skiy institut spirtovoy i likero-vodochnoy promyshlennosti (for Rayev, Drotanko, Kordyukova). 2. Andrushevskiy spirtokombinat (for Semenets, Kovalenko, Parkhomenko).

RAYEV, Z.A.; KORDYUKOVA, N.S.

Purification of molasses in the manufacture of bakers' yeast.
Spir. prom. 28 no.7:4-7 '62. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut spirtovoy i
likero-vodochnoy promyshlennosti.

RAYEV, Z.A.; KORDYUKOVA, N.S.; PINYAYEVA, N.A.; MEL'NIK, A.N.

Improving the maltose activity of distillery baker's yeast.
Ferm. i spirt. prom. 30 no.6:5-7 '64. (MIRA 17:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut spirtovoy i
likero-vodechnoy promyshlennosti.

KORDYUKOVA, S.

Fabrics which did not grow in fields. IUn.tekh. 2 no.8:17-23
Ag '59. (MIRA 12:7)
(Textile fibers, Synthetic)

SHUSTOROVICH, Yevgeniy Meyerovich; KABACHNIK, M.I., akademik,
otv. red.; BLYUMENFEL'D, L.A., doktor khim. nauk, otv.
red.; KORDYUKOVA, S.A., red.; TARASENKO, V.M., red. izd-va;
SUSHKOVA, L.A., tekhn. red.

[Nature of chemical bonds] Priroda khimicheskoi svyazi.
Moskva, Izd-vo AN SSSR, 1963. 134 p. (MIRA 16:12)
(Chemical bonds)

KORDIUM V.A. [Kordium, V.A.]; LAZURKEVICH, Z.V. [Lazurkevych, Z.V.];
ZHAROVA, L.G. [Zhareva, L.H.]

Possibility of using a temperature-gradient device for studying
cardinal temperature points in the growth of micro-organisms.
Mikrobiol.zhur. 27 no.2:83-86 '65.

(MIRA 18:5)

1. Institut mikrobiologii i virusologii AN UkrSSR.

30(1)

AUTHOR:

Kordyum, L.Ye.

SOV/21-59-3-20/27

TITLE:

On Some Peculiarities of the Tapetum and Antipodes of the Family of Ranunculaceae (O nektorykh osobennostyakh tapetuma i antipod semeystva lyutikovyykh)

PERIODICAL:

Dopovidi Akademii nauk Ukrain's'koi RSR, 1959, Nr 3, pp 312-316 (USSR)

ABSTRACT:

Summing up data from reference materials and his own experience in the study of the development of the cells of the tapetum and antipodes of a number of Ranunculaceae species, the author notes some peculiarities of the cleavage of these cells, leading to the formation of polyploid nuclei. He draws an inference that the antipodes play a definite role in the metabolism of the embryo sac, which is confirmed by the presence in them of ascorbic acid of the SH group, and of some ferments. There are 2

Card 1/2

SOV/21-59-3-20/27

On Some Peculiarities of the Tapetum and Antipodes of the Family
of Ranunculaceae

sets of diagrams and 16 references, 1 of which is
Soviet, 4 German, 8 American, 1 French and 2 un-
identified.

ASSOCIATION: Botanicheskiy sad imeni akademika O.V. Fomina
(The Botanic Garden imeni Academician O.V. Fomin)

PRESENTED: November 28, 1958, by D.K. Zerov, Member of the
AS UkrSSR

Card 2/2

KORDYUM, V.A.

Continuous selection of bacteria in preparing phosphorubacterin.
Mikrobiol.zhur. 18 no.4:57-59 '56. (MLRA 10:2)

1. ~~Z~~ Kiivs'kogo derzhavnogo universitetu im. T.G.Shevchenka
(BACILLUS MEGATHERIUM)
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)
(FERTILIZERS AND MANURES)

KORDYUM, V.A. [Kordium, V.A.]

Interaction of Azotobacter and phosphorus bacteria. Mikrobiol.
zhur. 20 no.3:24-28 '58 (MIRA 11:11)

1. Iz Kiyevskogo gosudarstvennogo universiteta im. M.G. Shevchenko,
kafedra mikrobiologii;
(AZOTOBACTER)
(BACTERIA, PHOSPHORUS)

FRANTSEVICH, L.I.; KORDYUM, V.A.; AKIMOV, I.A.

A simple adaptation of the ordinary microscope for use as a polarizing microscope. Lab. delc 5 no.3:56-57 My-Je '59. (MIRA 12:6)

1. Iz Kiyevskogo gosudarstvennogo universiteta.
(MICROSCOPY)

KORDYUM, V. A., Cand Biol Sci -- (diss) "Correlations between nitrogen bacteria and phosphorus bacteria." Kiev, 1960. 12 pp with illustrations; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Kiev Order of Lenin State Univ im T. G. Shevchenko); 150 copies; free; (KL, 17-60, 147)

KORDYUM, V.A.

Physiology of *Bacillus megatherium* and on its phosphate-mineralizing
variants. Mikrobiol. zhur. 22 no.4:57-63 '60. (MIRA 13:11)
(BACILLUS MEGATHERIUM)

KORDYUM, V.A.

Simple method for impulse microphotography. Lab. dolo [7] no.4:
50-51 Ap '61. (MIRA 14:3)

1. Kafedra mikrobiologii i antibiotikov (zav. - prof. M.N.Rotmistrov)
Kiyevskogo gosudarstvennogo universiteta.
(MICROPHOTOGRAPHY—EQUIPMENT AND SUPPLIES)

RUBENCHIK, L.Y. [Rubenchyk, L.I.]; KORDYUM, V.A.; LAZURKEVICH, Z.M.
[Lazurkevych, Z.M.]; VLADIMIROVA, Ye.V. [Vladymyrova, IE.V.]

Growth of bacteria-free Chlorella cultures in a multi-stage continuous
flow system. Mikrobiol. zhur. 23 no.5:5-8 '61. (MIRA 14:12)

1. Institut mikrobiologii AN USSR.
(ALGAE—CULTURES AND CULTURE MEDIA)

KORDYUM, V.A.

Multiplication of micro-organisms from atmospheric and soil dust at
the expense of phytogenic substances under greenhouse conditions.
Mikrobiol. zhur. 23 no.5:8-12 '61. (MIRA 14:12)
(DUST--MICROBIOLOGY) (ALLELOPATHY)

KORDYUM, V.A.

Simple method for continuous cultivation of micro-organisms under
flowless conditions. Mikrobiol. zhur. 23 no.2:73-75 '61.

(MIRA 14:7)
(BACTERIOLOGY—CULTURES AND CULTURE MEDIA)

BOBCHENKO, Ye.S. [Bobchenko, IE.S.]; KORDYUM, V.A.

Multiplication of micro-organisms in the air; preliminary
report. Visnyk Kyiv. un. Ser. biol. no.1:173-175 '58.

(MIRA 15:6)

(AIR—MICROBIOLOGY)

RUBENCHIK, L. M. [Rubenchyk, L. I.]; KORDYUM, V. A.

Development of micro-organisms in an atmosphere of volatile substances secreted by pea and wheat shoots. Mikrobiol. zhur. 23 no.3:1-8 '61. (MIRA 15:7)

1. Institut mikrobiologii Akademii nauk USSR.

(RHIZOSPHERE MICROBIOLOGY) (WHEAT) (PEAS)

RUBENCHIK, L.I. [Rubenchyk, L.I.]; KORDYUM, V.A.; CHERNYKH, S.I.

Development of micro-organisms in the leaves of some plants
under natural conditions. Mikrobiol.zhur. 24 no.2:3-7 '62.
(MIRA 15:12)

1. Institut mikrobiologii AN UkrSSR.
(MICRO-ORGANISMS) (PLANTS)

KORDYUM, V.A.; SMIRNOVA, R.M. [Smyrnova, R.M.]

Oligodynamic action of corrosive sublimate and its elimination during the sterilization of seed surfaces. Mikrobiol.zhur. 24 no.3:63-67 '62.
(MIRA 15:8)

1. Institut mikrobiologii AN UkrSSR.
(SEEDS--DISINFECTION) (MERCURY)

KORDYUM, V.A.; LAZUNKEVICH, Z.V.; ZHAROVA, L.O. [Zharova, L.H.]

Simple method for checking bacteriological purity of cultures of
unicellular algae and detecting bacterial mutants. Mikrobiol. zhur.
24. no. 4: 61-63 '62. (MIRA 16:5)

(ALGAE--CULTURES AND CULTURE MEDIA)
(BACTERIOLOGY--TECHNIQUE)

CHERNOBEL'SKAYA, M.N. [Chernobyl's'ka, M.N.]; KORDYUM, V.A.; LANDAU, S.M.

Role of some factors on the spore formation of phosphorus
bacteria. Visnyk Kyiv.un. no.2. Ser.biol. no.1:103-106 '59.
(MIRA 16:4)

(BACTERIA, PHOSPHORUS) (SPORES (BOTANY))

KORDYUM, V.A.; EYNOR, L.O.; LAZURKEVICH, Z.V.; CHERNYKH, S.I.

Characteristics of respiration of the thermophilic variant of
Chlorella vulgaris. Dop. AN URSR no.5:655-658 '63. (MIRA 17:9)

1. Institut mikrobiologii AN UkrSSR i Institut botaniki AN UkrSSR.
Predstavleno akademikom AN UkrSSR D.K.Zerovym.

KORDYUM, V.A.; LENOVA, L.I.; VAYSAND, S.M.; RATUSHNAYA, M.Ya. [Ratushna, M.IA.]; PRIOBRAZHENSKAYA, L.N. [Preobrazhens'ka, L.N.]; SMIRNOVA, M.N. [Smirnova, M.N.]

Effect of the removal of metabolites on the growth of *Chlorella vulgaris*. Mikrobiol. zhur. 27 no.5:23-26 '65.

(MIRA 18:10)

1. Institut mikrobiologii i virusologii AN UkrSSR.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824610016-3

USSR Weeds and Weed Control

N

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44416

Author : Kordyum E.L.

Inst : Kiev Univ.

Title : Distribution Data for Dodder in Domanevskiy Rayon, Nikolayevskaya Oblast'

Orig Pub : Nauk. zap. Kiivs'k. un-t, 1957, 16, No 1, 137-139

Abstract : No abstract

Card : 1/1

KORDYUM, Ye.L. [Kordyum, YE L.]

KORDYUM, Ye. L., Cand of Bio Sci -- (diss) "Comparative Embryological Investigation of the Crowfoot Family (Ranunculaceae)," Kiev, 1959, 16 pp (Kiev State Univ im Shevchenko) (KL, 1-60, 120)

KORDIUM, Ye.L. [Kordium, IE.L.]

Embryology of the representatives of the tribe Helleboreae.
Visnyk Kyiv.un. no.2 Ser.biol. no.1:27-33 '59. (MIRA 16:4)
(HELLEBORE) (BOTANY---EMBRYOLOGY)

KORDYUM, Ye.L. [Kordium, Ye.L.]

Comparative embryological study of the crowfoot family
(Ranunculaceae D.C). Ukr.bot.zhur. 16 no.1:32-43 '59.

(MIRA 12:5)

1. Kiyevskiy gosudarstvennyy universitet im. T.G.Shevchenko
i Botanicheskiy sad im. akad. Formina.
(Crowfoot) (Botany--Embryology)

KORDYUM, Ye. L.

Multiplication processes of endosperm nuclei in *Nigella sativa* L.
[with summary in English]. Ukr.bot.zhur. 14 no.4:40-46 '57.

(MIRA 11:1)

1.Kiiv's'kiy derzhavniy universitet im. T.G. Shevchenka i Botanichniy
sad im. akademika O.V. Fomina.

(Plant cells and tissues)

(*Nigella*)

KORDYUM, Ye.L. [Kordium, IE.L.]

Data on the distribution of dodder in Domanevka District, Nikolaev
Province. Nauk zap. Kyiv. un. 16 no.1:137-139 '57. (MIRA 11:6)
(Domanevka District--Dodder)

KOEDYUM, Ye.L.

Aberrations in embryological processes in the case of remote
hybridisation of makhorka. Bot.shur. (Ukr.] 12 no.4:26-34 '55.
(MLBA 9:3)

1. Botanichnyi sad KDU imeni akademika Fomina.
(Tobacco)

KORDYUM, Ye.L. [Kordium, IE.L.]

The pollination and fertilization process in some species of the
crowfoot family. Ukr. bot. zhur. 17 no.6:61-67 '60. (MIRA 14:3)

1. Institut botaniki AN USSR, otdel tsitologii i embriologii.
(Crowfoot) (Fertilization of plants)

KORDYUM, Ye.L. [Kordium, YE.L.]

Abnormalities in the structure of the flower in garden forms of
the larkspur *Consolida ajacis* (L.) Schur. Ukr.bot.zhur. 18
no.4:59-62 '61. (MIRA 14:8)

1. Institut botaniki AN USSR, otdel tsitologii i embriologii.
(Larkspur) (Abnormalities (Plants))

KORDYUM, Ye.L. [Kordium. Ye.L.]

Polyembryony in Vincetoxicum officinale Moench. Ukr. bot.
zhur. 18 no.3:48-54 '61. (MIRA 14:12)

1. Institut botaniki AN USSR, otdel tsitologii i embriologii.
(Polyembryony)
(Vincetoxicum)

KORDYUM, Ye.L. [Kordium, YE.L.]

Conference on the coordination of work on the problem "Flora and vegetation, their historical development, utilization, regeneration, and improvement". Ukr. bot. zhur. 18 no.3:113-115 '61.

(Ukraine--Botany)

(MIRA 14:12)

KORDIUM, Ye.L. [Kordium, IE.L.]; ZAYETS, V.A. [Zalets', V.O.]

Embryology of the petty spurge *Euphorbia peplus* L. Ukr.bot.
zhur. 19 no.5:42-48 '62. (MIRA 16:1)

1. Institut botaniki AN UkrSSR, otdel tsitologii i embriologii.
(Spurge) (Botany--Embryology)

KORDYUM, Ye.L. [Kordium, IE.L.]

Microsporogeresis and characteristics of the development of tapetum in some species of the genus Vincetoxicum Moench. Ukr. bot. zhur. 18 no.5:6-14 '61. (MIRA 17:2)

1. Institut botaniki AN UkrSSR, otdel tsitologii i embliologii.

KORDYUM, Ye.I. [Kordium, IE.I.]; BOYKO, A.P.

Embryology of *Gerbera anandria* Schultz. Dop. AN URSR no. 8: 1109-
1112 '62. (NIRA 18:2)

I. Institut botaniki AN UkrSSR.

KORDYUM, Ye.L. [Kordium, IE.L.]

Embryological characteristics of the viviparous form of *Poa bulbosa* L. var. *vivipara* Koel. Ukr. bot. zhur. 20 no.3:43-53 '63.
(MIRA 17:9)

1. Otdel tsitologii i embiologii Instituta botaniki AN UkrSSR.

KORDYUM, Ye. L.

"Comparative cyto-embryological investigation of the Umbelliferae."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

AS UkSSR, Kiev.

KORDYUM, Ya.L.; VELEDNITSKAYA, D.L.

Characteristics of the development of the anther tapetum and micro-
sporogenesis in some representatives of Umbelliferae. Bot. zhur. 49
no. 11: 1609-1615 N 1964.
(MIRA 18:1)

1. Institut botaniki AN, Kiev.

ZOSIMOVICH, V.P., red.otv.; MODILEVSKIY, Ya.S., red.; KOLESNIK,
N.N., doktor biol. nauk, red.; KHUDYAK, M.I., kand.
biol. nauk, red.; KORDYUM, Ye.L., kand. biol. nauk, red.;
KUZNETSOVA, A.S., red.

[Cytology and genetics] TSitologiya i genetik. Kiev,
Naukova dumka, 1965. 223 p. (MIRA 19:1)

1. Akademiya nauk URSR, Kiev. 2. Chlen-korrespondent
AN Ukr.SSR i Institut botaniki AN Ukr.SSR (for Zosimovich).

USSR / General Biology Physical and Chemical Botany
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824610016-3

Abs Jour: Ref Zhur-Biol., No 18, 1958, 80933.

Author : ~~Kordyumov, G. B.~~, Neyman, M. B., Frank, G. M.
Inst : Not given.
Title : Utilization of Radioactive Isotopes in USSR.

Orig Pub: Atomn. Energiya, 1957, 3, No 11, 465-478.

Abstract: No abstract.

Card 1/1

KORDZADZE, R.A.

Fundamental theorems for singular integral equations with shifts. Dokl.
AN SSSR 154 no.6:1250-1253 F '64. (MIRA 17:2)

1. Novosibirskiy gosudarstvennyy universitet. Predstavleno akademikom
I.N.Vekua.

L 11867-65 EWT(d) Pg-1 AFWL/ASD(a)-5/AFETR/ESD(dp)/IJP(c)

ACCESSION NR: AF4030773

S/0020/64/155/004/0739/0742

AUTHOR: Kordzadze, R. A.

13

TITLE: The general boundary-value problem with shift for second-order elliptic equations

SOURCE: AN SSSR. Doklady*, v. 155, no. 4, 1964, 739-742

TOPIC TAGS: differential equation, elliptic equation, second order elliptic equation, boundary value problem

ABSTRACT: Let S^+ be a finite domain in the plane $z=x+iy$ and assume that it is bounded by a simple closed Lyapunov curve Γ , where the positive direction along Γ keeps S^+ to the left. Assume that a function $\alpha(t)$ homeomorphically maps the curve Γ onto itself with preservation of direction, has derivative $\alpha'(t) \in H$ that is nonzero everywhere on Γ , and is such that for some fixed natural number n

$$\alpha_n(t) \equiv \alpha[\alpha_{n-1}(t)] = t \quad (\alpha_0(t) \equiv t, t \in \Gamma). \quad (1.1)$$

Consider the differential equation

Card 1/3

L 14867-65

ACCESSION NR: AP4030773

$$\Delta u - a(x, y) \frac{\partial u}{\partial x} + b(x, y) \frac{\partial u}{\partial y} + c(x, y) u = 0, \quad (1.2)$$

where a , b , and c are real analytic functions of their arguments in some domain of definition of equation (1.2). Throughout the remainder of the article it is assumed that the origin lines in S^+ and that $S^+CS_1^+$, where S_1^+ is the fundamental domain of the equation (1.2). The $A(\alpha_n)$ problem. Let m be some natural number or zero. It is required to find a real regular solution $u(x, y)$ for equation (1.2) that is continuous together with its derivatives of order m in $S^+ + T$, satisfies the condition H on T , and satisfies the boundary condition

$$\sum_{j=0}^{n-1} \sum_{k=0}^m \left\{ a_{j,k}^{l,k}(t_0) u_{j,k}^+(t_0) + \int_T b_{j,k}^{l,k}(t_0, \tau) u_{j,k}^+(\tau) d\tau \right\} = f(t_0) \quad (1.3)$$

$$\left(u_{j,k}^+(t) = \left(\frac{\partial^{j+k} u}{\partial x^j \partial y^k} \right)^+ \right),$$

where $a_{j,k}^{l,k}(t_0)$, $f(t_0)$ and $b_{j,k}^{l,k}(t_0, \tau)$ are given real functions with $a_{j,k}^{l,k}(t_0)$ and $f(t_0)$ in the class H and $b_{j,k}^{l,k}(t_0, \tau)$ of the form

$$(1.4)$$

Card2/3

L 14867-65

ACCESSION NR: AP4030773

I. N. Vekua's method (which is not explicitly stated) is used to represent any solution of the $A(\alpha_n)$ problem, conditions under which the $A(\alpha_n)$ problem has a finite number of linearly independent (over the reals) solutions are found, and the number of linearly independent solutions is estimated. It is also noted that I. N. Vekua's method can be used to study the $A(\alpha_n)$ problem for multiple connected domains. Orig art. has: 16 equations.

ASSOCIATION: Novosibirskiy gosudarstvennyy universitet (Novosibirsk State University)

SUBMITTED: 05Dec63

ENCL: 00

SUB CODE: MA

NO REF SOV: 005

OTHER: 000

Card 3/3

KORDZADZE, R.A.

Singular integral equations with a shift. Dokl. AN SSSR 160 no.6:
1242-1243 F '65. (MIRA 18:2)

1. Novosibirskiy gosudarstvennyy universitet. Submitted July 7,
1964.

KORDZADZE, T.B.; LOSABERIDZE, An.A.

Calculating arches of dams for temperature according to a
multicantilever design. Soob. AN Gruz. SSR 40 no.2:393-399
N '65. (MIRA 19:1)

1. Institut stroitel'noy mekhaniki i seysmostoykosti AN GruzSSR,
Tbilisi. Submitted Feb. 12, 1965.

LOSABERIDZE, An.A.; KORDZADZE, P.V.

Design of thick circular arches taking into consideration the
flexibility of the support. Scob. AN Gruz. SSR 34 no.2:395-
401. My '64. (MIRA 18:2)

1. Institut stroitel'noy mekhaniki i seysmostoykosti AN Gruzinskoy
SSR, Tbilisi. Submitted July 10, 1963.

KORDZAIA, M.A.

Histology of the marginal part of the esophagus and stomach
in vertebrates (Testudo greca). Trudy Tbil. GU 88:89-98 '63.
(MIRA 18:8)

1. Kafedra gistologii Tbilisskogo universiteta.

KORDZAKHIYA, M.O.

772. Чигинадзе Давид Ме-
терелишвили. Материалы на основе древних тифли-
ских документов. Тбилиси: Изд-во ТбГУ, 1961. 68 с. 1241 экз. 001.
Исследования многокомпонентных сплавов. Тбилиси: Изд-во ТбГУ, 1961. 68 с. 1241 экз. 001.

Звщ. 1941, 30.6.
773. Чланински Гурин Алекс
соотношения в августина-1941. 96 с.
печат. Об основна изследвания

776. Шадур Ростом Семенов. Об атомной и военной доле совет. 1955, 25 л.

УДК 62-50

777. ზეზაშვილი პირობა სვს.
 დანა 60. ზეზაშვილი პირობა სვს.
 780. პირობა სვს. 50 მ. 1900.

Լուս Յանցյա Կոնգրեսայ (1933—1943
ԲԷ). 1931. 98, 141 և, 12 հտ.
մարտ 1953. 304.

Бернштейн Георгий Павло- вич. Анализ структурного движения водона-
сыщенных пород. Тбилиси, 50 с., Тбл.- изд., (Гр. ТТУ,
изд. Исследования геологическими вод-
ными ресурсами, 1936, № 1, 1937).

вышедший из полного периода учета со-
 ветской власти (1933—1945 гг.)
 3 апр. 1943, 14.4.
 781. Голубович, Евгений Николаевич.
 1941. 61 с. 12 экз.

[illegible]

1941-1942	1942-1943	1943-1944	1944-1945	1945-1946	1946-1947	1947-1948	1948-1949	1949-1950	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955	1955-1956	1956-1957	1957-1958	1958-1959	1959-1960	1960-1961	1961-1962	1962-1963	1963-1964	1964-1965	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975	1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981	1981-1982	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989	1989-1990	1990-1991	1991-1992	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	2032-2033	2033-2034	2034-2035	2035-2036	2036-2037	2037-2038	2038-2039	2039-2040	2040-2041	2041-2042	2042-2043	2043-2044	2044-2045	2045-2046	2046-2047	2047-2048	2048-2049	2049-2050	2050-2051	2051-2052	2052-2053	2053-2054	2054-2055	2055-2056	2056-2057	2057-2058	2058-2059	2059-2060	2060-2061	2061-2062	2062-2063	2063-2064	2064-2065	2065-2066	2066-2067	2067-2068	2068-2069	2069-2070	2070-2071	2071-2072	2072-2073	2073-2074	2074-2075	2075-2076	2076-2077	2077-2078	2078-2079	2079-2080	2080-2081	2081-2082	2082-2083	2083-2084	2084-2085	2085-2086	2086-2087	2087-2088	2088-2089	2089-2090	2090-2091	2091-2092	2092-2093	2093-2094	2094-2095	2095-2096	2096-2097	2097-2098	2098-2099	2099-2100	2100-2101	2101-2102	2102-2103	2103-2104	2104-2105	2105-2106	2106-2107	2107-2108	2108-2109	2109-2110	2110-2111	2111-2112	2112-2113	2113-2114	2114-2115	2115-2116	2116-2117	2117-2118	2118-2119	2119-2120	2120-2121	2121-2122	2122-2123	2123-2124	2124-2125	2125-2126	2126-2127	2127-2128	2128-2129	2129-2130	2130-2131	2131-2132	2132-2133	2133-2134	2134-2135	2135-2136	2136-2137	2137-2138	2138-2139	2139-2140	2140-2141	2141-2142	2142-2143	2143-2144	2144-2145	2145-2146	2146-2147	2147-2148	2148-2149	2149-2150	2150-2151	2151-2152	2152-2153	2153-2154	2154-2155	2155-2156	2156-2157	2157-2158	2158-2159	2159-2160	2160-2161	2161-2162	2162-2163	2163-2164	2164-2165	2165-2166	2166-2167	2167-2168	2168-2169	2169-2170	2170-2171	2171-2172	2172-2173	2173-2174	2174-2175	2175-2176	2176-2177	2177-2178	2178-2179	2179-2180	2180-2181	2181-2182	2182-2183	2183-2184	2184-2185	2185-2186	2186-2187	2187-2188	2188-2189	2189-2190	2190-2191	2191-2192	2192-2193	2193-2194	2194-2195	2195-2196	2196-2197	2197-2198	2198-2199	2199-2200	2200-2201	2201-2202	2202-2203	2203-2204	2204-2205	2205-2206	2206-2207	2207-2208	2208-2209	2209-2210	2210-2211	2211-2212	2212-2213	2213-
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199

Candidate Physical-Mathematical Sciences

1. The first step is to identify the problem. This involves understanding the current situation and the goals that need to be achieved. It is important to gather all relevant information and to define the problem clearly.

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Tbilisi State U.

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**Dissertation for degree of
Candidate Physics-Mathematics**

Def. at U.
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M. O. Kordsakhia

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